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ABSTRACT OF THE INVENTION

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Compression plate apparatus enables vessels to be joined together in various
anastomosis configurations. The compression plates have locking components such as snap-
fit components to maintain the plates together. The compression plate apparatus may be
utilized with an intraluminally directed anvil apparatus or an eternally positioned anvil
apparatus. One of the compression plates assists in the eversion of the anastomosis fenestra
contour. One of the compression plates enables a graft vessel to be pre-everted so that the
anastomosis fenestra contours are everted. The appparatus provides a structure that enables
the vessels to be joined without being penetrated.

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